

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete If Known		RECEIVED DEC 1 2001 GROU	
				Application Number	09/990,572		
				Filing Date	November 23, 2001		
				First Named Inventor	Osame Moselhi et al.		
				Art Unit	3673		
				Examiner Name	(unknown)		
Sheet	1	of	3	Attorney Docket Number	6446-17US JA/AD/mb		

RECEIVED

DEC 02 2003

GROUP 360C

[illegible][illegible]

Examiner Signature	Sheela Chan	Date Considered	8/3/05
-----------------------	-------------	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet **2** of **3**

Complete If Known

Application Number **09/990,572**
Filing Date **November 23, 2001**
First Named Inventor **Osama Moselhi et al.**
Art Unit **3673**
Examiner Name **(unknown)**
Attorney Docket Number **6446-17US JA/AD/mb**

RECEIVED

DEC 02 2003

GROUP 360

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>see</i>		Abraham D. Chae et al., (2000) "Utilizing Neural Networks for Condition Assessment of Sanitary Sewer Infrastructure". Proceeding of the 17 th Int'l Conference on Robotics and Automation in Construction, Taipei, Taiwan, pp. 423-427.	
		E.W. Duggan et al., (1995) Practical Selection of Trenchless Technology "Methods for Sewerage and Drainage System Rehabilitation/Replacement". Proceedings of the North American No-DIG'95, Chicago, Ill, SB2- pp.2-68.	
		Abraham D. Gokhale et al., (1998) Intelligent Systems Evaluation Technologies "An Analysis of Three Promising Options". Proceedings of the North American No DIG 98, New Mexico, pp. 254-256.	
		Abraham D. Gokhale et al., (2000) "Automated Assessment Technologies for Renewal of Underground Pipeline Infrastructure". Proceeding of the 17 th International Conference on Robotics and Automation in Construction, Taipei, Taiwan, pp. 433-438.	
		M. Kaseco et al., (1994) "Comparison of Traditional and Neural Classification for Pavement - Crack Detection". Journal of Transportation Engineering, ASCE, 120 (4), pp. 552-569.	
		Moselhi et al., (1993) "Project Selection Considering Risk". Construction Management and Economics, E & F.N. Spon, 11 (1), pp. 45-52.	
		Moselhi et al., (1999) "Automated Detection of Defects in Underground Sewer and Water Pipes". Journal of Automation in Construction, Elsevier Science, 8, pp. 581-588.	
		Moselhi et al., (1999) "An AI-Based System for Detection and Classification of Defects in Sewers". Proceedings in INFRA 99 International Conference, Center of Expertise and Research on Infrastructures in Urban Areas (CERIU), Montreal, CANADA 3B: pp. 42-54.	
		Moselhi et al., (2000) "Classification of Defects in Sewer Pipes Using Neural Networks". Journal of Infrastructure Systems, ASCE, 6(3) pp. 97-105.	
		Moselhi et al., (2000) "An Automated System for Rehabilitation of Sewer Pipes". Canadian Civil Engineer, CSCE, 17 (3), pp. 6-8.	

Examiner Signature	<i>Sheela Chawen</i>	Date Considered	<i>8/3/05</i>
--------------------	----------------------	-----------------	---------------

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet **3** of **3****Complete If Known**

Application Number	09/990,572
Filing Date	November 23, 2001
First Named Inventor	Osame Moselhi et al.
Art Unit	3673
Examiner Name	(unknown)
Attorney Docket Number	6446-17US JA/AD/mb

RECEIVED**DEC 02 2003****GROUP 360****NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
SC		Moselhi et al., (2001) "Multiple Classifiers for Automated Detection of Defects in Sewer Pipes". Proceeding of 2001 International Conference on Rehabilitation of Infrastructures, Waterloo, Canada, pp. 273-278.	
		Moselhi et al., (1998) "Rehab Select: A decision Support System for Selecting Trenchless Pipeline Rehabilitation Techniques". Proceedings of the North American No-DIG'98, New Mexico, pp. 14-23.	
		Frederick, Md. (1996) "NeuroShell-2 reference manual". Ward Systems Group Inc.	
		Ritchie S., (1989) "Digital Image Concepts and Application in Pavement Management". Journal of Transportation Engineering, ASCE, 116 (3), pp. 287-298.	
		Richie et al., (1991), "Development of an Intelligent System for Automated Pavement Evaluation". Transportation Research Record, National Research Council, 1311, pp.112-119.	
		Frederick, Md. (1998) "Scion Image for Windows reference manual". Scion Corporation, Maryland, USA.	
		SINHA, S. (2001) "Development of an Automated Pipeline Inspection System", Proceeding of the International Symposium on Underground Infrastructure Research, Waterloo, Canada, pp. 279-286.	
		Shehab-Eldeen, T. et al., 2000, "A database System for Rehabilitation Techniques of Sewer Pipes". Proceedings of the 17th International Conference on Automation and Robotics in Construction., Taipei, Taiwan, pp. 1085-1090.	
		Shehab-Eldeen (2001) "A decision Support System for Rehabilitation of Sewer Pipes". Canadian Journal of Civil Engineering, CSCE 28(3), pp. 394-401.	
		Wirahadikusumah R., et al., (1998) "Assessment Technology for Sewer Rehabilitation". Journal of Automation In Construction, Elsevier Science, 7 (4), pp. 259-270.	

Examiner Signature	<i>Sheel Chana</i>	Date Considered	<i>8/3/05</i>
-----------------------	--------------------	--------------------	---------------

*EXAMINER if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

